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9354

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EXAMINER

LIM, STEVEN

ART UNIT

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/533,548	Applicant(s) ISHII, KENICHI	
	Examiner Steven Lim	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 October 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) See Continuation Sheet is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7-14, 16-23, 25-31, 33-44, 46-49, 51-56, 58-64, 66-71, 73-76, 78-82 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Continuation of Disposition of Claims: Claims pending in the application are 1-5,7-14,16-23,25-31,33-44,46-49,51-56,58-64,66-71,73-76 and 78-82.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-5, 7-9, 41, 44, 46-48, 54, 56, 58-64, 66-71, 73-76, and 78-82 are rejected under 35 U.S.C. 102(e) as being anticipated by Kall (US 7076257).

3. Regarding Claims 1, 41, 44, 54, 56, 64, and 82, Kall teaches a telecommunication system with mobile phone location functions including a node including a positioning response generation function unit (LCS Server, Col. 6, Lines 36-40) that generates a response of the position information to an external client (LCS client) based on a requested accuracy and request accuracy request class (Accuracy Class A and B, Col. 7, Lines 10-12, 35-46) that designates a class of treatment when the requested accuracy is not available as a first class (accuracy does not exist) by sending an error if the position information does not exist (Col. 6, Lines 51-54, 14-17) and a second class when the accuracy requested cannot be met and asking the user to accept the closest (lower quality information, Col. 7, Lines 14-17) accuracy to the requested accuracy.

4. Regarding Claims 2, Kall further teaches a first class (Accuracy class A), which satisfies a positioning accuracy requested by an external client (Col. 7, Lines 41 and 47-49).
5. In regards to Claim 3, Kall further teaches a class of treatment responding an error if the position information does not exist (Col. 6, Lines 51-54, 14-17).
6. For Claim 4, Kall further teaches providing a second class of treatment when the accuracy requested cannot be met and asking the user to accept the closest (lower quality information, Col. 7, Lines 14-17) accuracy to the requested accuracy.
7. In regards to Claim 5, Kall further teaches for the second class of treatment (any class) responding an error if the position information does not exist (Col. 6, Lines 51-54, 14-17).
8. Regarding Claims 7 and 46, Kall further teaches the position system comprising a holding function unit (register or database) to store data, which may include request accuracy request class information (Col. 4, Lines 41-43).
9. Regarding Claims 8 and 47, Kall further teaches the position system includes a receiving function unit (Fig. 3, Positioning data received from MS target Item 20 at LCS server Item 12) that receives the request for location information including accuracy requirements (Col. 6, Lines 10-14).
10. Regarding Claim 9, Kall further teaches an external client (LCS client) that transmits a request for location information including accuracy (Col. 6, Lines 25-29) a positioning response generation function unit (LCS server) using the information to generate a response of position information (Col. 6, Lines 36-40, Col. 7, Lines 4-6) and

when an accuracy request has not been transmitted using a using the accuracy inside the positioning system (quality level requirement set by the service provider, Col. 7, Lines 17-19) to generate the location information response.

11. In regards to Claim 48, Kall further teaches the position system comprising a holding function unit (register or database) to store data, which may include positioning accuracy request class information (Col. 4, Lines 41-43), a receiving function unit (Fig. 3, Positioning data received from MS target Item 20 at LCS server Item 12) that receives the request for location information including accuracy requirements (Col. 6, Lines 10-14) and an external client (LCS client) that transmits a request for location information including accuracy (Col. 6, Lines 25-29) a positioning response generation function unit (LCS server) using the information to generate a response of position information (Col. 6, Lines 36-40, Col. 7, Lines 4-6) and a merge function unit which generates the location information response using the accuracy inside the positioning system when an accuracy request has not been transmitted using a (quality level requirement set by the service provider, Col. 7, Lines 17-19).

12. Regarding Claims 58 and 59, Kall further teaches a mobile communication system (cellular telecommunications system) that includes a regional area network (cell coverage area, Col. 1, Lines 20-26) and a management device (mobile switching center, Col. 1, Lines 27-31). Kall also teaches phone location functions including a node that has a positioning response generation function unit (LCS Server, Col. 6, Lines 36-40) that generates a response of the position information to an external client (LCS client) based on a requested accuracy and request accuracy request class (Col. 7,

Lines 10-12, 35-46) by cooperating and obtaining location information about the external client via network controllers including the management device (Col. 2, Lines 26-34).

13. In regards to Claim 60, Kall further teaches using OTDOA to determine the position of the mobile station (Col. 5, Line 64 - Col. 6, Line 1).

14. In regards to Claim 61, Kall further teaches responding an error if the position information does not exist (Col. 6, Lines 51-54, 14-17).

15. Regarding Claim 62, Kall further teaches a client device (external client, Fig. 3, Item 8) a positioning request processor (LCS server, Fig. 3, Item 12) that receives a positioning request from a client and transmits location information (Col. 6, Lines 36-40) or an error message (Col. 6, Lines 51-54, 14-17).

16. Regarding Claim 63, Kall further teaches the positioning request processing means receiving an accuracy level (Col. 7, Lines 4-6).

17. Regarding Claims 66 and 67, Kall further teaches the mobile communication system (cellular telecommunications system) includes a regional area network (cell coverage area, Col. 1, Lines 20-26) and a management device (mobile switching center, Col. 1, Lines 27-31). Kall also teaches phone location functions including a node that has a positioning response generation function unit (LCS Server, Col. 6, Lines 36-40) that generates a response of the position information to an external client (LCS client) based on a requested accuracy and request accuracy request class (Col. 7, Lines 10-12, 35-46) cooperates and obtains location information about the external client via network controllers including the management device (Col. 2, Lines 26-34).

18. In regards to Claim 68, Kall further teaches using OTDOA to determine the position of the mobile station (Col. 5, Line 64 - Col. 6, Line 1).

19. In regards to Claim 69, Kall further teaches responding an error if the position information does not exist (Col. 6, Lines 51-54, 14-17).

20. For Claim 70, Kall further teaches transmitting an accuracy request (Col. 7, Lines 4-6) and level request (Class request, Col. 7, Lines 25-27).

21. Regarding Claims 71, 75, 76, 78 - 81, Kall teaches a telecommunication system including a regional area network (cell coverage area, Col. 1, Lines 20-26), a management device (mobile switching center, Col. 1, Lines 27-31), a client device with mobile phone location functions (Col. 6, Lines 25-30) and a antenna (Col. 5, Lines 50-52) for communicating with the regional area network and a server (LCS Server), and a node that has a positioning response generation function unit (LCS Server, Col. 6, Lines 36-40) that generates a response of the position information to an external client (LCS client) based on a requested accuracy and request accuracy request class (Accuracy Class A and B, Col. 7, Lines 10-12, 35-46) that designates a class of treatment when the requested accuracy is not available as a first class (accuracy does not exist) by sending an error if the position information does not exist (Col. 6, Lines 51-54, 14-17) and a second class when the accuracy requested cannot be met and asking the user to accept the closest (lower quality information, Col. 7, Lines 14-17) where the response is generated by cooperating and obtaining location information about the external client via network controllers including the management device (Col. 2, Lines 26-34)., a holding function unit (register or database) to store data, which may include positioning

accuracy request class information (Col. 4, Lines 41-43), and a transmission means that responds to the external client with position information or an error if the position information does not exist regardless of the level (Col. 6, Lines 51-54, 14-17).

22. In regards to Claim 73, Kall further teaches using OTDOA to determine the position of the mobile station (Col. 5, Line 64 - Col. 6, Line 1).

23. In regards to Claim 74, Kall further teaches responding an error if the position information does not exist (Col. 6, Lines 51-54, 14-17).

Claim Rejections - 35 USC § 103

24. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

25. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

26. Claims 10-14, 16-23, 25-31, 33-37, 42-43, 49, 51-53, and 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kall (US 7076257).

27. Regarding Claims 10, 42, 49, and 55, Kall discloses a telecommunication system with mobile phone location functions including a node that has a positioning response generation function unit (LCS Server, Col. 6, Lines 36-40) that generates a response of the position information to an external client (LCS client) based on a requested freshness (time stamp, Col. 7, Lines 10-12), requested accuracy class that designates a class of treatment when the requested accuracy is not available as a first class (accuracy does not exist) by sending an error if the position information does not exist (Col. 6, Lines 51-54, 14-17) and a second class when the accuracy requested cannot be met and asking the user to accept the closest (lower quality information, Col. 7, Lines 14-17) accuracy to the requested accuracy, however Kall fails to disclose a request freshness request class, and having the same classes for a freshness parameter as the accuracy parameter.

Kall further discloses using the freshness (time stamp) as a parameter in the quality of location information (Col. 7, Lines 10-12) and forming classes for the information required (Col. 7, Lines 29-31) which enables a user to further define the requirements for the freshness of the location data.

Kall further discloses forming classes for the information required (Col. 7, Lines 29-31) which enables a user to further define the requirements for the freshness of the location data.

It would have been obvious to one having ordinary skill in the art at the time of invention was made to have classes for the other types of information and to use freshness as the parameter defining the first and second class because the freshness of

location information is an alternate parameter to the accuracy of a given location's information (Col. 7, Lines 10-12).

28. Regarding Claim 11, Kall discloses a first class of treatment, which satisfies a positioning accuracy requested by an external client (Col. 7, Lines 41 and 47-49), however Kall fails to disclose the same class for a requested freshness.

Kall discloses using the freshness (time stamp) as a parameter in the quality of location information (Col. 7, Lines 10-12) and forming classes for the information required (Col. 7, Lines 29-31) which enables the user to further define the requirements for the freshness of the location data.

It would have been obvious to one having ordinary skill in the art at the time of invention was made to use freshness as the parameter defining the first class of treatment because the freshness of location information is an alternate parameter to the accuracy of a given location's information (Col. 7, Lines 10-12).

29. In regards to Claim 12, Kall further discloses a first class of treatment responding an error if the position information does not exist (Col. 6, Lines 51-54, 14-17).

30. For Claim 13, Kall further discloses providing a second class of treatment when the accuracy requested cannot be met and asking the user to accept the closest (lower quality information, Col. 7, Lines 14-17) accuracy to the requested accuracy, however Kall fails to disclose having a same class for a freshness parameter.

Kall discloses using the freshness (time stamp) as a parameter in the quality of location information (Col. 7, Lines 10-12) and forming classes for the information

required (Col. 7, Lines 29-31) which enables a user to further define the requirements for the freshness of the location data.

It would have been obvious to one having ordinary skill in the art at the time of invention was made to use freshness as the parameter defining the second class of treatment because the freshness of location information is an alternate parameter to the accuracy of a given location's information (Col. 7, Lines 10-12).

31. In regards to Claim 14, Kall further discloses all classes of treatment requesting the node to respond an error if the position information does not exist (Col. 6, Lines 51-54, 14-17).

32. Regarding Claims 16 and 51, Kall further discloses the position system comprising a holding function unit (register or database) to store data, which may include request freshness request class information (Col. 4, Lines 41-43).

33. Regarding Claims 17 and 52, Kall further discloses the position system includes a receiving function unit (Fig. 3, Positioning data received from MS target Item 20 at LCS server Item 12) that receives the request for location information including freshness requirements (Col. 6, Lines 10-14).

34. Regarding Claim 18, Kall further discloses an external client (LCS client) that transmits a request for location information including freshness (Col. 6, Lines 25-29) a positioning response generation function unit (LCS server) using the information to generate a response of position information (Col. 6, Lines 36-40, Col. 7, Lines 4-6) and when an freshness request has not been transmitted then using a using the freshness

inside the positioning system (quality level requirement set by the service provider, Col. 7, Lines 17-19) to generate the location information response.

35. Regarding Claims 19 and 43, Kall teaches a telecommunication system with mobile phone location functions including a node including a positioning response generation function unit (LCS Server, Col. 6, Lines 36-40) that generates a response of the position information to an external client (LCS client) based on a requested accuracy and request accuracy request class (Accuracy Class A and B, Col. 7, Lines 10-12, 35-46) that designates a class of treatment when the requested accuracy is not available as a first class (accuracy does not exist) by sending an error if the position information does not exist (Col. 6, Lines 51-54, 14-17) and a second class when the accuracy requested cannot be met and asking the user to accept the closest (lower quality information, Col. 7, Lines 14-17) accuracy to the requested accuracy, however Kall fails to disclose a request freshness request class, and having the same classes for a freshness parameter as the accuracy parameter.

Kall further discloses using the freshness (time stamp) as a parameter in the quality of location information (Col. 7, Lines 10-12) and forming classes for the information required (Col. 7, Lines 29-31) which enables a user to further define the requirements for the freshness of the location data.

Kall further discloses forming classes for the information required (Col. 7, Lines 29-31) which enables a user to further define the requirements for the freshness of the location data.

It would have been obvious to one having ordinary skill in the art at the time of invention was made to have classes for the other types of information and to use freshness as the parameter defining the first and second class because the freshness of location information is an alternate parameter to the accuracy of a given location's information (Col. 7, Lines 10-12).

36. Regarding Claim 20, Kall further teaches a first class (Accuracy class A), which satisfies a positioning accuracy requested by an external client (Col. 7, Lines 41 and 47-49).

37. In regards to Claim 21, Kall further teaches a class of treatment responding an error if the position information does not exist (Col. 6, Lines 51-54, 14-17).

38. For Claim 22, Kall further teaches providing a second class of treatment when the accuracy requested cannot be met and asking the user to accept the closest (lower quality information, Col. 7, Lines 14-17) accuracy to the requested accuracy.

39. In regards to Claim 23, Kall further teaches for the second class of treatment (any class) responding an error if the position information does not exist (Col. 6, Lines 51-54, 14-17).

40. Regarding Claim 25, Kall further teaches the position system comprising a holding function unit (register or database) to store data, which may include request accuracy request class information (Col. 4, Lines 41-43).

41. Regarding Claim 26, Kall further discloses the position system includes a receiving function unit (Fig. 3, Positioning data received from MS target Item 20 at LCS

server Item 12) that receives the request for location information including accuracy requirements (Col. 6, Lines 10-14).

42. Regarding Claim 27, Kall further discloses an external client (LCS client) that transmits a request for location information including accuracy (Col. 6, Lines 25-29) a positioning response generation function unit (LCS server) using the information to generate a response of position information (Col. 6, Lines 36-40, Col. 7, Lines 4-6) and when an accuracy request has not been transmitted using a using the accuracy inside the positioning system (quality level requirement set by the service provider, Col. 7, Lines 17-19) to generate the location information response.

43. Regarding Claim 28, Kall discloses a class of treatment, which satisfies a positioning accuracy requested by an external client (Col. 7, Lines 41 and 47-49), however Kall fails to disclose the same class as a third class for a requested freshness.

Kall discloses using the freshness (time stamp) as a parameter in the quality of location information (Col. 7, Lines 10-12) and forming classes for the information required (Col. 7, Lines 29-31) which enables the user to further define the requirements for the freshness of the location data.

It would have been obvious to one having ordinary skill in the art at the time of invention was made to use freshness as the parameter defining the first class of treatment because the freshness of location information is an alternate parameter to the accuracy of a given location's information (Col. 7, Lines 10-12).

44. In regards to Claim 29, Kall further discloses a third class (all classes) of treatment responding an error if the position information does not exist (Col. 6, Lines 51-54, 14-17).

45. For Claim 30, Kall further discloses providing a second class of treatment when the accuracy requested cannot be met and asking the user to accept the closest (lower quality information, Col. 7, Lines 14-17) accuracy to the requested accuracy, however Kall fails to disclose having a same class as a fourth class for a freshness parameter.

Kall discloses using the freshness (time stamp) as a parameter in the quality of location information (Col. 7, Lines 10-12) and forming classes for the information required (Col. 7, Lines 29-31) which enables a user to further define the requirements for the freshness of the location data.

It would have been obvious to one having ordinary skill in the art at the time of invention was made to use freshness as the parameter defining the fourth class of treatment because the freshness of location information is an alternate parameter to the accuracy of a given location's information (Col. 7, Lines 10-12).

46. In regards to Claim 31, Kall further discloses all classes of treatment requesting the node to respond an error if the position information does not exist (Col. 6, Lines 51-54, 14-17).

47. Regarding Claim 33, Kall further discloses the position system comprising a holding function unit (register or database) to store data, which may include request freshness request class information (Col. 4, Lines 41-43).

48. Regarding Claim 34, Kall further discloses the position system includes a receiving function unit (Fig. 3, Positioning data received from MS target Item 20 at LCS server Item 12) that receives the request for location information including freshness requirements (Col. 6, Lines 10-14).

49. Regarding Claim 35, Kall further discloses an external client (LCS client) that transmits a request for location information including freshness (Col. 6, Lines 25-29) a positioning response generation function unit (LCS server) using the information to generate a response of position information (Col. 6, Lines 36-40, Col. 7, Lines 4-6) and when an freshness request has not been transmitted then using a using the freshness inside the positioning system (quality level requirement set by the service provider, Col. 7, Lines 17-19) to generate the location information response.

50. Regarding Claims 36 and 37, Kall further discloses that when the parameters requested cannot be met the user is asked to accept the closest value (lower quality information, Col. 7, Lines 14-17) where the value information includes both the accuracy or freshness of a position information.

51. For Claim 53, Kall further discloses the position system comprising a holding function unit (register or database) to store data, which may include positioning freshness request class information (Col. 4, Lines 41-43), a receiving function unit (Fig. 3, Positioning data received from MS target Item 20 at LCS server Item 12) that receives the request for location information including freshness requirements (Col. 6, Lines 10-14), and an external client (LCS client) that transmits a request for location information including freshness (Col. 6, Lines 25-29) a positioning response generation

function unit (LCS server) using the information to generate a response of position information (Col. 6, Lines 36-40, Col. 7, Lines 4-6) and when an freshness request has not been transmitted then using a using the freshness inside the positioning system (quality level requirement set by the service provider, Col. 7, Lines 17-19) to generate the location information response.

52. Claims 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kall (US 7076257) in view of Yamamoto et al. (US 20020138650).

53. Regarding Claims 38, 39, and 40, Kall discloses that when the parameters requested cannot be met the user is asked to accept the closest (lower quality information, Col. 7, Lines 14-17) information and sending that data to the client where the data includes either the accuracy or freshness of a position information, however Kall fails to disclose prioritizing the accuracy or freshness.

In an analogous art, Yamamoto et al. discloses a location system in which an accuracy parameter is given priority over freshness (time, Paragraph 283), which enables a user to choose which parameter is more important.

It would have been obvious to one having ordinary skill in the art at the time of invention was made to prioritize accuracy or freshness in order for a user to specify the most important factor in the parameters regarding a position information retrieval operation.

Response to Arguments

Applicant's arguments filed 10/9/2007 have been fully considered but they are not persuasive. Regarding applicant's argument that Kall fails to disclose that the request class/level designates a class/level of treatment, Examiner disagrees because Kall does disclose three classes of treatment such as responding an error (Col. 6, Lines 51-54, 14-17), responding the closest (lower quality information, Col. 7, Lines 14-17) accuracy to the requested accuracy, and responding accuracy that meets the request (Accuracy Class A). These classes of treatment are defined as classes that can be requested and therefore the disclosure of the prior art meets the limitations as broadly claimed in the instant application.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Lim whose telephone number is (571) 270-1210. The examiner can normally be reached on Mon-Thurs 9:00am-4:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571)272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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